

1st.—Observations for the Latitude.

RACINE.—September 6th, 1858.—Observations for the Latitude.

1.—Circum-meridian altitudes of Alpha AQUILÆ (Altair), South.

Number for reference.	Observed meridian distances in Sidereal time.		Reduction to the meridian.		Observed true circum-meridian altitudes of Star, as corrected for refraction and errors of sextant.			True meridian altitudes deduced.			Latitude, deduced from each observation.		
	m.	s.	'	"	°	'	"	°	'	"	°	'	"
1	15	51.4	10	35.9	55	35	29.7	55	46	05.6	42	43	50.4
2	13	19.4	7	29.3	55	38	42.2	55	46	11.5	42	43	44.5
3	10	40.4	4	48.6	55	41	22.3	55	46	10.9	42	43	45.1
4	8	53.4	3	20.1	55	42	52.3	55	46	12.4	42	43	43.6
5	3	31.4	0	31.5	55	45	37.4	55	46	08.9	42	43	47.1
6	1	28.4	0	05.4	55	46	04.9	55	46	10.3	42	43	45.7
7	1	33.6	0	06.2	55	45	59.9	55	46	06.1	42	43	49.9
8	4	37.6	0	54.2	55	45	12.4	55	46	06.6	42	43	49.4
9	7	43.6	2	31.3	55	43	37.3	55	46	08.5	42	43	47.5
10	12	11.6	6	16.4	55	39	59.8	55	46	16.2	42	43	39.8
11	14	32.6	8	55.0	55	37	14.7	55	46	09.7	42	43	46.2

LATITUDE, deduced from a mean of 11 altitudes of the Star
Alpha AQUILÆ (Altair) South..... 42 43 46.3